

CLAIMS

- 1 1. A system adapted to simplify management of a clustered storage system having a
2 plurality of failover modes, the system comprising:
3 a user interface system that defines one of a plurality of failover modes; and
4 a command set implemented by the user interface system and including a com-
5 mand for setting a cluster mode.
- 1 2. The system of claim 1 wherein the user interface system comprises a command
2 line interface (CLI) adapted to support the command set.
- 1 3. The system of claim 1 wherein the command set further comprises an igroup
2 command that determines whether a set of initiators may utilize data access command
3 proxying.
- 1 4. The system of claim 3 wherein the set of initiators comprises at least one fibre
2 channel world wide name.
- 1 5. The system of claim 3 wherein the set of initiators comprises one or more iSCSI
2 identifiers.
- 1 6. The system of claim 3 wherein the igroup command sets an igroup option to de-
2 termine whether members of a set of initiators may use a partner port for proxying data
3 access command.
- 1 7. The system of claim 3 wherein the command set further comprises a cfmode
2 command that sets a cluster mode for the clustered storage system.

1 8. The system of claim 7 wherein the cluster mode enables the clustered storage
2 system to proxy data access requests received by a first storage system in the clustered
3 storage system to a second storage system in the clustered storage system.

1 9. The system of claim 7 wherein the cluster mode enables a first storage system in
2 the clustered storage system to assume an identity of a second storage system in the
3 clustered storage system.

1 10. The system of claim 7 wherein the cluster mode enables proxying of data access
2 requests received by a first storage system in the clustered storage system to a second
3 storage system in the clustered storage system and further enables the first storage system
4 to assume an identity of the second storage system.

1 11. The system of claim 1 wherein the command for setting a cluster mode comprises
2 a cfmode command.

1 12. The system of claim 1 wherein the user interface system further comprises a
2 graphical user interface having functionality to implement the command set.

1 13. A method for simplifying management of a clustered storage system having a plu-
2 rality of failover modes, the method comprising the steps of:
3 providing a user interface system; and
4 executing a cfmode command supported by the user interface system to set a
5 cluster mode for the clustered storage system, the cluster mode defining one of a plurality
6 of failover modes.

1 14. The method of claim 13 wherein the cluster mode comprises a partner mode; and
2 wherein the clustered storage system is enabled to proxy data access requests re-
3 ceived by a first storage system in the clustered storage system to a second storage sys-
4 tem.

- 1 15. The method of claim 13 wherein the cluster mode comprises a standby mode; and
2 wherein a first storage system in the clustered storage system is enabled to assume
3 an identity of a second storage system in the clustered storage system.
- 1 16. The method of claim 13 further comprising the step of providing a GUI imple-
2 menting commands available through the user interface system.
- 1 17. The method of claim 13 further comprising the step of providing a GUI window
2 for setting a cluster mode of the clustered storage system.
- 1 18. The method of claim 16 further comprising the step of providing a GUI window
2 for setting a proxy option for an initiator group.
- 1 19. A system adapted to simplify management of a clustered storage system having a
2 plurality of failover modes, the system comprising:
3 user interface means for implementing a command line interface; and
4 means for setting a cluster mode, the cluster mode defining one of a plurality of
5 failover modes.
- 1 20. The system of claim 19 further comprising means for determining whether a set
2 of initiators may utilize data access command proxying.
- 1 21. The system of claim 19 wherein user interface means further comprises means for
2 determining whether a set of initiators may utilize data access command proxying.
- 1 22. The system of claim 21 wherein the set of initiators comprises at least one fibre
2 channel world wide name.

1 23. The system of claim 21 wherein the set of initiators comprises one or more iSCSI
2 identifiers.

1 24. The system of claim 19 wherein the cluster mode enables the clustered storage
2 system to proxy data access requests received by a first storage system in the clustered
3 storage system to a second storage system in the clustered storage system.

1 25. The system of claim 19 wherein the cluster mode enables a first storage system in
2 the clustered storage system to assume an identity of a second storage system in the
3 clustered storage system.

1 26. The system of claim 19 wherein the cluster mode enables proxying of data access
2 requests received by a first storage system in the clustered storage system to a second
3 storage system in the clustered storage system and further enables the first storage system
4 to assume an identity of the second storage system.

1 27. A computer readable medium, including program instructions executing on a
2 computer, for simplifying management of a clustered storage system having a plurality of
3 failover modes, the computer readable medium including instructions for performing the
4 steps of:

5 providing a user interface system; and
6 executing a cfmode command supported by the user interface system to set a
7 cluster mode for the clustered storage system, the cluster mode defining one of a plurality
8 of failover modes.

1 28. The computer readable medium of claim 27 wherein the cluster mode comprises a
2 partner mode; and

3 wherein the clustered storage system is enabled to proxy data access requests re-
4 ceived by a first storage system in the clustered storage system to a second storage sys-
5 tem.

1 29. The computer readable medium of claim 27 wherein the cluster mode comprises a
2 standby mode; and

3 wherein a first storage system in the clustered storage system is enabled to assume
4 an identity of a second storage system in the clustered storage system.

1 30. The computer readable medium of claim 27 further comprising the step of pro-
2 viding a GUI implementing commands available through the user interface system.

1 31. The computer readable medium of claim 27 further comprising the step of pro-
2 viding a GUI window for setting a cluster mode of the clustered storage system.

1 32. The computer readable medium of claim 27 further comprising the step of pro-
2 viding a GUI window for setting a proxy option for an initiator group.